Treatment Option Case Study - Hawaii

(proposed management system)

Conservation Effects Worksheet

Grazing Land - Range

(land use and crop)

Resource Setting: Kamuela, Hawaii

Waimea Soils, 6 - 20 % slopes.

Present Management System:

Planned Grazing System (556)

Proper Grazing Use (528)

Electric Fencing (382)

Pipeline (516)

Trough (614)

Resource Problems Before Treatment:

Overgrazing

Sheet and rill erosion

Gully erosion

Wind erosion

Sedimentation runoff

ACTIONS (Kinds, Amounts, Timing)	**EFFECTS** (Effects of Continuing Bench System)
Planned Grazing System (556) A 10,000 acre 375 cow/calf intensive grazing system 10 - 1,000 acre paddocks will be constructed with electric fencing during a 4 week period. The cattle will be rotated every 3 to 5 days depending on condition of paddocks. Fencing (382) Design and install electric livestock fence for grazing system. Pipeline (516) Design and install for grazing paddocks. Trough (614) Design and install for grazing paddocks.	RMS INSTALLED Soil loss 4 tons/acre Increase herd size Increase pasture quality Reduce soil compaction Increase ground cover Reduce soil erosion Increase filtering effect Improve water quality Enhance wildlife habitat Machinery - 30 hp tractor - 4X4 truck - Post hole auger Fencing - $0.24/feet - $1,267/mile (includes solar energizer) Pipeline 1 in. Black Polyethylene $0.48/feet 1 1/2 in. Black Polyethylene $0.81/feet 2 in. Black Polyethylene $1.14/feet Trough 300 gal fiberglass trough $450 Fuel Cow/calf planned grazing system 10 gal/wk. Instillation 80 gal for 4 weeks.
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